

#### west virginia department of environmental protection

Office of Oil and Gas 601 57th Street SE Charleston, WV 25304 (304) 926-0450 (304) 926-0452 fax Earl Ray Tomblin, Governor Randy C. Huffman, Cabinet Secretary www.dep.wv.gov

January 08, 2014

#### WELL WORK PERMIT

#### Vertical Well

This permit, API Well Number: 47-8510084, issued to HAUGHT ENERGY CORPORATION, is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0499 ext. 1654.

James Martin

Chief

Operator's Well No: W 1645

Farm Name: ADKINS, JAMES ., ET AL

API Well Number: 47-8510084 Permit Type: Vertical Well

Date Issued: 01/08/2014

Promoting a healthy environment.

#### PERMIT CONDITIONS

West Virginia Code § 22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

#### CONDITIONS

- 1. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6-20, which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 2. Pursuant to 35 CSR § 4-19.1.a, at the request of the surface owner all water wells or springs within 1000 feet of the proposed well that are actually utilized for human consumption, domestic animals or other general use shall be sampled and analyzed.
- 3. Pursuant to 35 CSR § 4-19.1.c, if the operator is unable to sample and analyze any water well or spring within one thousand (1,000) feet of the permitted well location, the Office of Oil and Gas requires the operator to sample, at a minimum, one water well or spring located between one thousand (1,000) feet and two thousand (2,000) feet of the permitted well location.
- 4. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
- 5. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
- 6. During the surface casing and cementing process, in the event cement does not return to the surface, or any other casing string that is permitted to circulate cement to the surface and does not return to the surface, the oil and gas inspector shall be notified within twenty-four (24) hours.
- 7. Well work activities shall not constitute a hazard to the safety of persons.

WW - 2B (Rev. 8/10) 8510084

## STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

		<u>V</u>	VELL WORK PE	RMIT APPLIC	ATION 85	04	393
1) Well Operato	r: Haug	ht Energy	/ Corporation	494494463	Ritchie	Union	Harrisville
				Operator ID	County	District	Quadrangle
2) Operator's W	ell Numb	oer: <u>W-164</u>	45		3) Elevation:	1064'	
4) Well Type: (a	) Oil <u>X</u>	or Ga	ısX				
(b	) If Gas:	Produ	ction X / Unc	derground Sto	rage	_	
		Deep	o/ S	hallow X	_		
5) Proposed Ta 6) Proposed To 7) Approximate	tal Depth	: 5850'	Enson/ Alexand Feet Indepths: 160'	er [Formation at F	Proposed Tar Proposed Tota	get Depth: <u>5</u> al Depth: Ek	800'
			1314'			-	
9) Approximate	coal sea	m depths	S: None Noted in 0	Offset Wells			
10) Approximate	e void de	pths,(coa	al, Karst, other):	None Noted in (	Offset Wells		
11) Does land o	ontain co	oal seam	s tributary to act	ive mine? N	0		- f
12) Describe pro	posed we	ll work ar	nd fracturing meth	ods in detail (a	ttach additiona	I sheets if nee	eded)
Orill new Oil & Gas	Well. Stin	nulate with	Nitrogen and or Fo	oam fracturing me	ethods including	approximately	700,000 SCF
Nitrogen Per Stage	and or ap	proximatel	y 250 Barrels water	r to create 70-80	quality foam.		
		357 34			2.		
13)		Contraction of Street	SING AND TUE				
TYPE S	PECIFIC	ATIONS		FOOTAGE	INTERVALS	CEMEI	<u>NT</u>
2	Size	<u>Grade</u>	Weight per ft	For Drilling	Left in Well	Fill -up (Cu	<u>. Ft.)</u>
Conductor	13-3/8"	R-2	43 6#	30'	30'	Grout to S	urface

<u>`</u>		, ,,,,,,,,				<u> </u>
	<u>Size</u>	<u>Grade</u>	Weight per ft	For Drilling	Left in Well	Fill -up (Cu. Ft.)
Conductor	13-3/8"	R-2	43.6#	30'	30'	Grout to Surface
Fresh Water	9-5/8"	R-3	26#	300	300'	To Surface
Coal	NA	NA	NA	NA	NA	NA
Intermediate	7" .	R-3	17#	2000'	2000'	To Surface
Production	4-1/2"	R-3	9.5#	5850'	5850'	250 Sacks, 2000 Fillup
Tubing	NA	NA	NA	NA	NA	NAOII & Ga
Liners	NA	NA	NA NA	NA	NA IA	DECNA 2013
Packers: Kind	d: NA	2	*		Enviro	NA 2013 N Department of
Size	es: NA			1	A.	Tiental Prot of
Dep	ths Set	NA AV			i.	Otection
	_	-			* fail	DWC.

WW-2	2A
(Rev.	6-07)

1). Date: 12-9-2013

2.) Operator's Well Number W-1645

State County Permit

3.) API Well No.: 47- 085 -

# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4) Surface Ow	ner(s) to be serve	d: /	5) (a) Coal Ope	rator	
(a) Name	James T. & Mary Lou Ad		Name	None	
Address	PO Box 235		Address		
	Harrisville, WV 26362		_		
(b) Name		100	(b) Coal Ov	vner(s) with Declaration	
Address			Name	NA	
			 Address		
			_		
(c) Name			Name		
Address			Address		
,	2000		_	St.	
6) Inspector	David Cowan	5	(c) Coal Le	ssee with Declaration	
Address	1597 Devil Hole Road		Name	NA	
	Harrisville, WV 26362		Address		
Telephone			_		
	TO THE	PERSONS NA	MED ABOVE TA	KE NOTICE THAT:	T.
Included is t				cts by which I hold the right to e	xtract oil and gas
OR					g
	he information requir	red by Chapter 22	, Article 6, Section	8(d) of the Code of West Virgin	nia (see page 2)
I certify	that as required und	der Chapter 22-6	of the West Virgin	nia Code I have served copies	of this notice and
application, a loc				gh on the above named par	rties by:
(a) (b)		rice (Affidavit attac	The state of the s		
_			al receipt attached	i)	
		otice of Publication			
		Chapter 22-6 and	35 CSR 4, and I	agree to the terms and condit	tions of any permit
issued under this		that I have nore	anally avaminad a	and am familiar with the informa	tion outenitted on
				and am familiar with the informa of those individuals immediate	
	ormation, I believe th				ery responsible for
				se information, including the pos	ssibility of fine and
imprisonment.		, <b>,</b>	3	, , , , , , , , , , , , , , , , , , , ,	<b>,</b>
		Well Operator	Haught Energy Corpora	ation	
	RY PUBLIC OFFICIAL SEAL	By:	Marien /	· clarello	
M (147 ( (141 (141 ) ) ) \CH	BERT J. HAUGHT State of West Virginia	Its:	Agent	J	*
My Comr	nission Expires March 23, 2019	Address	12864 Staunton TPKE		
118 Crestw	ood Dr. Parkersburg, WV 26104		Smithville, WV 26178		
		Telephone	304-477-3333		
Subscribed and	sworn before me this	s day of	DECEMBER	,,	
			SR (5	Noton Offic MECE	1.
My Commission	Evpiros	MARCH 23,	2019	Notary Paging Of O	VED
				Notary Publice of Oil	86-
on and odo i iii as,			1	UEC 1. a	das
The Office of Oil and	d Gas processes your p	ersonal information,	such as name, addre	ss and phone number, as a part of ou in the normal course of business or a	r regulatory duties.
with statutory or re	quiatory requirements.	including Freedom o	f Information Act regi	uests. Our office will appropriately se	cure vour personal
information. If you h	ave any questions abo	ut our use of your pe	rsonal information, p	lease contact DEP's Chief Privacy Of	ficer at
depprivacyofficer@					iicei at
	wv.gov		1 20	iontal p	of Of
	wv.gov			iental Prot	Of
	wv.gov		and the second	ess and phone number, as a part of or in the normal course of business of a uests. Our office will appropriately se lease contact DEP's Chief Privacy Of	of ection

#### **WW-2A Coal Waiver**

### COAL OPERATOR, OWNER, OR LESSEE WAIVER

County Ritchie			144.4045	
Operator Haught Energy Corporation O	perator's We	l Number	VV-1645	•
INSTRUCTIONS TO COAL	- OPERATO	R, OWNER	R, OR LESSEE	
To the coal operator, owner, or lessee	named on r	200 \AAA/2	y₋Δ Vou are her	eby notified that
any objection you wish to make or are require				
with the Chief of the Office of Oil and Gas wi				
by the Office. Mail objections to:		o, aajo a	nor the receipt o	r tino application
Chief, Office of Oil and Gas				
Department of Environmental Protection				
601 57 <sup>th</sup> St. SE				
Charleston, WV 25304				
(304) 926-0499 extension 1654	i			
	WAIVER			
The undersigned coal operator/	Owner	/ lessee	/ of the cos	al under this well
location has examined this proposed well location	etion If a mir	_/ icssec _		the area of well
location, the well location has been added to	the mine mai	The und	dersigned has no	o objection to the
work proposed to be done at this location, pro				
requirements of the West Virginia Code and the				an approasio
<b>3</b>		- 0		
	•			
FOR EXECUTION BY A NATURAL PERSON		FOR EXEC	CUTION BY A CORF	PORATION, ETC.
•	Comp	anv		
Date	Name	•		
Signature	By		<del></del>	D-1-
	lts ;	-		Date
		Signa	ature	Date
				,
*No Coal Operators Located on property				
			Oc. REI	^r.
			Office of	CEIVED FOII & Gas
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			DEC 1.	o dag
		_	4.	D 2010
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	i		-'પર્વા	Protect
			WV Depart Invironmental	TOUTION

WW	-2A1	
(Rev.	1/11	)

Operator's	Well	Number	W-1645
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#### INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6, Section 8(d) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that -

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
Haught Family Trust	Whittle Corporation	1/8	245/660

Whittle Corporation is a wholly owned subsidiary of Haught Energy Corporation and as owner of Whittle Corporation, Haught Energy Corporation has full right to drill and complete an oil and gas well on the above property with leases taken and agreements put into place by Whittle Corporation. (Agreement Attached)

#### Acknowledgement of Possible Permitting/Approval In Addition to the Office of Oil and Gas

The permit applicant for the proposed well work addressed in this application he reby a cknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources
- WW Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

The applicant further acknowledges that any Office of Oil and Gas permitting the permits/approvals that may be necessary and further acknowledges that any Office of Oil and Gas permitting the permitted permitted and permitted The applicant further acknowledges that any Office of Oil and Gas permit in no way overtides, replaces, or

> Well Operator: By: Its:

Haught Energy Corporation nvironmental Protection Agent

#### AGREEMENT

THIS AGREEMENT, Made this 1st day of December, 2010, by and between Whittle Corporation, HC 68 Box 14, Smithville, WV 26178 as party of the First part and Haught Energy Corporation, HC 68 Box 14, Smithville, WV 26178 as Party of the second part.

#### WHEREAS:

Haught Energy Corporation is the parent company of Whittle Corporation.

#### WITNESSETH:

Whittle Corporation gives Haught Energy Corporation the right to operate and develop any leases that are owned by Whittle Corporation within the State of West Virginia.

IN WITNESS WHEREOF, the Parties have caused this Assignment to be properly executed the day and year first above written.

Whittle Corporation

Name: Warren R. Haught

Title: President

Haught Energy Corporation

Name: B. Douglas Haught

Title: President

STATE OF WEST VIRGINIA

#### COUNTY OF RITCHIE

BE IT KNOWN, that on this 1st day of December, 2010, before me, the undersigned authority, personally came and appeared WARREN R. HAUGHT appearing herein in his capacity as the PRESIDENT of WHITTLE CORPORATION, to me personally know to be the identical person whose name is subscribed to the foregoing instrument as the said officer of said corporation, and declared and acknowledged to me, Notary, that he executed the same on behalf of said corporation, and that the said instrument is the free act and deed of the said corporation and was executed for the uses, purposes and benefits therein expressed.

NOTARY PUBLIC

NOTARY PURIL OFFICIAL SEAL ROBERT J. HAUGHT Scale of West Vegins My Commission Expires March 23, 2019 188 Crestwood Dr. Parkersburg, WV 26104

STATE OF WEST VIRGINIA

COUNTY OF RITCHIE

BE IT KNOWN, that on this 1st day of December, 2010, before me, the undersigned authority, personally came and appeared B. DOUGLAS HAUGHT appearing herein in his capacity as PRESIDENT of HAUGHT ENERGY CORPORATION, to me personally know to be the identical person whose name is subscribed to the foregoing instrument as the said officer of said corporation, and declared and acknowledged to me, Notary, that he executed the same on behalf of said corporation, and that the said instrument is the free act and deed of the said corporation and was executed for the uses, purposes and benefits therein expressed.

NOTARY PUBLIC

This Document Prepared by:

Whittle Corporation HC 68 Box 14 Smithville, WV 26178 HOWAY PUBLIC OFFICIAL SEAL ROBERT J. HAUGHT State of West Visylinia My Commission Expires March 20, 2019 118 Crestwood Dr. Parkenborg, WV 26104

WW-2B1	
(5-12)	

Well	No.	W-1645	
	_		

## West Virginia Department of Environmental Protection Office of Oil and Gas

#### NOTICE TO SURFACE OWNERS

The well operator named below is preparing to file for a permit from the state to drill a new well. Before a well work permit can be filed with the Chief of the Office of Oil and Gas, the well operator is required to have given notice of the right to request water well or spring analytical testing. This notice shall be given to the owners or occupants of land which have a water well or spring being utilized for human consumption, domestic animals, or other general use and which is located within 1000 feet of the proposed well site.

With this form, the operator is giving you notice of your right to request analytical testing. The operator is required to sample and analyze the water wells or springs of all owners or occupants who request it. Therefore, if you wish to have your water well or spring tested, contact the operator named below.

All sampling shall be completed prior to drilling. Within thirty (30) days of the receipt of such sample analyses the operator shall submit the results to the Chief of the Office of Oil and Gas and to the owners or occupants who may have requested them.

Be advised, you have the right to sample and analyze any water supply at your own expense.

Listed below is the laboratory chosen by operator to perform analysis, and contactor chosen to collect sample.

Certified Laboratory Name Sampling Contractor

Microbac Laboratories

158 Starlight Dr, Marietta, OH 45750

Well Operator Haught Energy Corporation

Address

12864 Staunton TPKE

Telephone

12864 Staunton TPKE Smithville, WV 26178 304-477-3333

FOR OPERATOR'S USE ONLY: Below, or on an attached page, list those persons which were given this notice. Place an asterisk beside the one(s) that contacted you and requested sampling and analyses. If there were no requests made, indicate by underling which one you have selected to sample and analyze. If there are no water wells or springs within 1000 feet of the proposed site, the Chief may require the operator to test wells up to 2000 feet from the proposed site.

No water wells within 1000 feet of proposed loc Surfaces owners Contacted:		Offic TECEIVED
No water wells within 1000 feet of proposed loc	cation, will sample water source wit	thin 2,000 feet of the bare
Surfaces owners Contacted:		" or Gas
James T. & Mary Lou Adkins		DEC 1.6 2013
PO Box 235		140.
Harrisville, WV 26362		Envis Denos
		WV Department of Environmental Protection
		Protection
		σιιοη

WW-9 (5/13)

	Page	of	
API Number 47 - 085	-		
Operator's Well	No. W-1645		

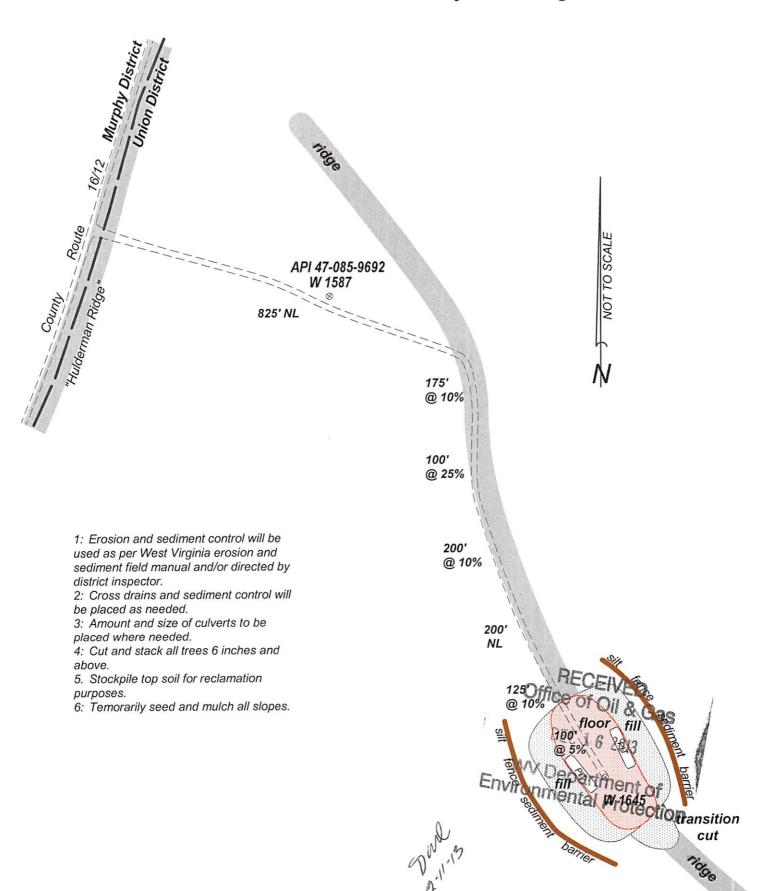
# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

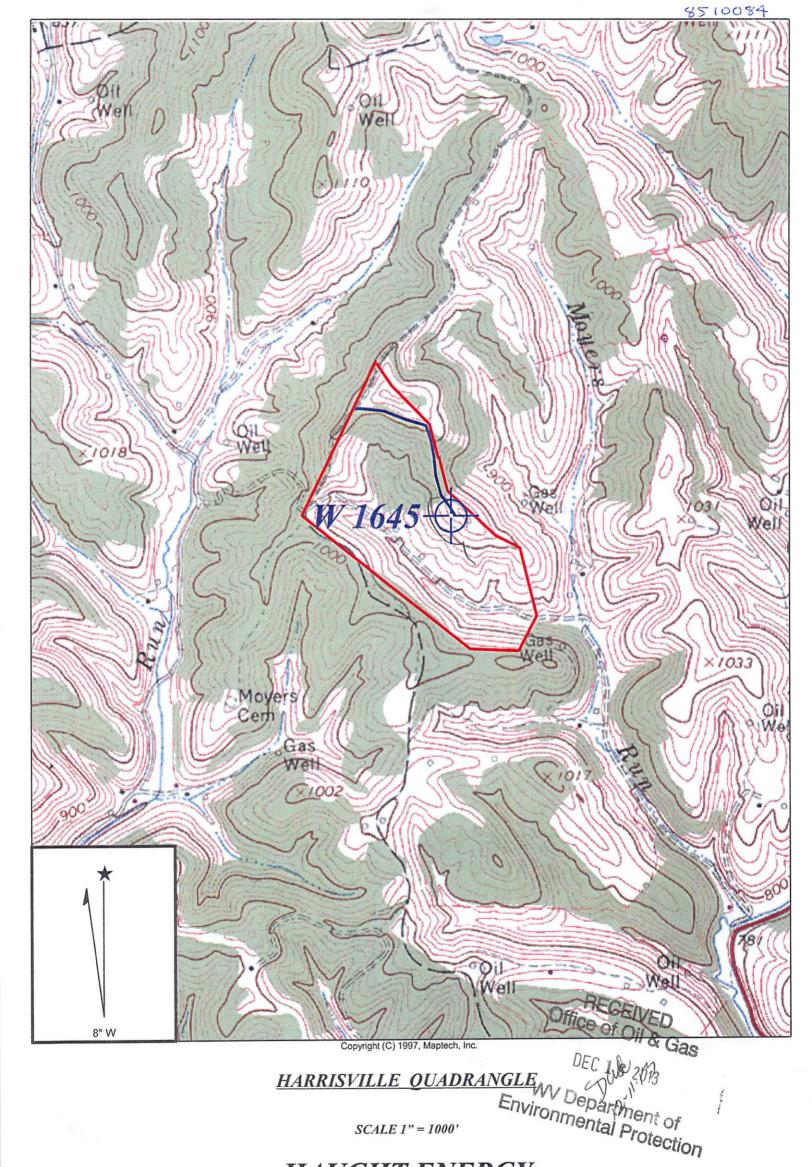
#### FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Haught Energy Corporation OP Code 494494463
Watershed (HUC 10) Moyers Run Quadrangle Harrisville
Elevation 1064' County Ritchie District Union
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes NoX
Will a pit be used for drill cuttings? Yes X No No
If so, please describe anticipated pit waste: Drilling Water/ Fluid
Will a synthetic liner be used in the pit? Yes X No If so, what ml.? 20 mil
Proposed Disposal Method For Treated Pit Wastes:
Land Application Underground Injection (UIC Permit Number  Reuse (at API Number  Off Site Disposal (Supply form WW-9 for disposal location) Other (Explain
Will closed loop system be used? No
Drilling medium anticipated for this well? Air, freshwater, oil based, etc. Air
-If oil based, what type? Synthetic, petroleum, etc. NA
Additives to be used in drilling medium?_TD 200 Drilling Soap
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Leave in Pit
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) Lime
-Landfill or offsite name/permit number? NA
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.  I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.
Company Official Signature  Company Official (Typed Name) Warren Haught  Company Official Title Agent  Office of Oil & Gas
Company Official (Typed Name) Warren Haught
Company Official Title Agent UFC 1 6 2012
- WD-
Subscribed and sworn before me this 9th day of DECEMBER , 20173 PORT AND SOURCE OF THE AND SOURCE OF T
Notary Public 2 The ROBERT L HAUGHT State of West Company
My Commission Expires March 23, 2019  My Commission Expires March 23, 2019  118 Crestwood Dr. Parkersburg, WV 2610

Form WW-9	Operator's Well No. W-1644	
Proposed Revegetation Treatment: Acres Disturbed 2.5 AC  Lime 2 Tons/acre or to correct to pH 6.5	Prevegetation pH 5.5	
Fertilizer (10-20-20 or equivalent) 600 lbs/acre (500 lbs/Mulch 90 bales Tons/acre	minimum)	
Seed Mixtures  Area I		
Seed Type   Ibs/acre   Pasture Mix   100   Pasture   Pas	Seed Type Ibs/acre	
(Orchard Grass, Rye Grass, Timothy, Clover) (Orchard Grass, Rye Grass, Timothy, Clover)		
	· · · · · · · · · · · · · · · · · · ·	
Attach: Drawing(s) of road, location,pit and proposed area for land application.		
Photocopied section of involved 7.5' topographic sheet.		
Plan Approved by: December 21 Church		
Comments: present emilia all and	area manjain all	
Title: of gas impector Date:	Office of Oil & Gas  DEC 1 6 2013  WV Department of Environmental Protection	

# Haught Energy, Inc. Well: W 1645 Haught Family Trust & Spruce Creek 83 Acre Lease Union District Ritchie County West Virginia





# SCALE 1" = 1000' HAUGHT ENERGY

WELL: W-1645 HAUGHT FAMILY TRUST & SPRUCE GROVE CHURCH 83 ACRE UNIT WEST VIRGINIA RITCHIE COUNTY UNION DISTRICT

